

### ABSTRACT OF THE INVENTION

A system and method to improve server throughput is presented. This system and method stores only selected information from the server's TCP/IP Transmission Control Block (TCB) in the time-wait state. This allows for the release of a portion of the non-paged pool (NPP) memory that was used by the TCB to previously service the now closing connection. This newly released NPP memory may then be used by the server to service additional TCP/IP connections, thus improving the throughput of the server. This small time-wait TCB (TWTCB) stores only an amount of information necessary to uniquely identify the connection to which it relates. Information that was stored to allow servicing of an active connection, but that is not needed to merely identify the connection, is not kept in the TWTCB. By maintaining information that allows for a unique identification of a closing connection, late routed packets for that connection are prevented from establishing a new connection with the server. By minimizing the amount of information to accomplish this unique identification, additional connections to a new client may be established without reaching a NPP memory limit.